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29. (Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; and including the step of coating a substrate with 2 to 4 gases of the following: CO_2 , CH_4 , O_2 , C_2H_2 , NH_3 and Ar.

46. (Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; and including the step of providing that the polar coating has an initial surface tension of < 45 mN/m, which remains unchanged for at least one year.

47. (Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place

by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; and including the step of coating at least one of polymer flexible substrates, polymer substrates reinforced with ceramic fibers, glass fibers, polymer fibers and carbon fibers, and powder- or granulate-formed substrates, and producing one of a polar film and a polar molded body.

48. (Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; and including the step of coating at least one of packing materials and substrates for adhesion of composite materials.

50. (Amended) Process which comprises: coating substrates with a polar coating, wherein the coating takes place by means of plasma polymerization; including the step of employing a water-free process gas which contains at least one

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substituted hydrocarbon compound with up to a maximum of 8 C-atoms and also an inorganic gas, to produce a coating which is stable in the long term; and including the step of coating at least one of ceramic and metal substrates.